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Fishtik, I.; Berka, L. H. Variability of the Cell Potential of a Given Chemical Reaction. April, 584–586.
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Fletcher, S. E.; Stocksdale, M. G.; Henry, I.; Ogren, P. J.; Berg, M. A.; Pointer, R. D.; Benson, B. W. Developing Investigation Skills in an Introductory Multistep Synthesis Using Fluorene Oxidation and Reduction. March, 388–390.
Fong, L. K. Separation and Identification of a Mixture of Group 6 Transition-Metal Carbonyl Compounds Using GC–MS in the General Chemistry Curriculum. January, 103–105.
Fonseca, M. A.; Gomes, M. S.; Oliveira, M. O.; Oliveira, J. A. An Expeditious Experiment To Determine the Faraday Constant. January, 116–118.
Forbes, D. C. Incorporation of Medicinal Chemistry into the Organic Chemistry Curriculum. July, 975–976.
Ford, A. R.; Burns, W. A.; Reeve, S. W. Rotational Analysis of FTIR Spectra from Cigarette Smoke. An Application of Chem Spec II Software in the Undergraduate Laboratory. June, 865–867.
Ford, M. J.; Waclawik, E. R.; Hale, P. S.; Shapter, J. G.; Voelcker, N. H. Liquid-Crystal Displays: Fabrication and Measurement of a Twisted Nematic Liquid-Crystal Cell. June, 854–858.
Fortineau, A. Chemistry Perfumes Your Daily Life. (POC) January, 45–50.
Francl, M. M. Exploring Exotic Kinetics: An Introduction to the Use of Numerical Methods in Chemical Kinetics. (*JCE* SymMath) October, 1535.
Fraústo da Silva, J. J.; Williams, R. J. The Trinity of Life: The Genome, the Proteome, and the Mineral Chemical Elements. May, 738–749.
Frech, C. B. The Science of Cooking (by Peter Barham). (BMR) April, 488.
Freeman, R. D. SI for Chemists: Persistent Problems, Solid Solutions. SI Basic Units: The Kilogram and the Mole—Author Reply (re *J. Chem. Educ.* **2003**, *80*, 16–21). (Letter) June, 800–801.
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Frías-Ferrer, A.; Sánchez-Sánchez, C. M.; Expósito, E.; González-García, J.; Montiel, V.; Aldaz, A. Chlor–Alkali Industry: A Laboratory Scale Approach. May, 698–700.
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Fuzellier, H.; Comet, M.; Schreyeck-Reinert, L.; Verdan, S.; Burato, G. Spectacular Pseudo-Exfoliation of an Exfoliated–Compressed Graphite. (TD) June, 819–823.

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Gallant, A.; Loveland, W. D.; Joiner, C. The Living Textbook of Nuclear Chemistry: A Peer-Reviewed, Web-Based, Educational Resource. November, 1670–1671.
Gallardo, A.; Aguilar, M. R.; Abraham, G. A.; San Román, J. Chain Copolymerization Reactions: An Algorithm To Predict the Reaction Evolution with Conversion. August, 1210–1215.
Galley, W. C. Exothermic Bond Breaking: A Persistent Misconception. April, 523–525.
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Garcia-Pintor, E.; Ibañez, J. G.; Tellez-Giron, M.; Alvarez, D. Laboratory Experiments on the Electrochemical Remediation of the Environment. Part 6: Microscale Production of Ferrate. (ML) February, 251–254.
García-Santos, M. P.; Benito, J. H.; O'Brien, E.; Calle, E.; Casado, J. A Practical Integrated Approach to Supramolecular Chemistry. III. Thermodynamics of Inclusion Phenomena. April, 540–544.
Gardner, D. A Request for Chemical Wisdom. (Letter) February, 196.
Garrison, L. ACS National Meeting. Undergraduate Program: A Melting Point. August, 1102–1103.
Gary, R. K. The Concentration Dependence of the $\Delta S$ Term in the Gibbs Free Energy Function: Application to Reversible Reactions in Biochemistry. November, 1599–1604.
Gasyna, Z. L.; Jurkiewicz, A. Determination of Spin–Lattice Relaxation Time Using $^{13}C$ NMR. An Undergraduate Physical Chemistry Laboratory Experiment. July, 1038–1039.
Gavilan Garcia, I. C.; Santos Santos, E.; Lejarazo Gomez, E. F. Caring for the Environment While Teaching Organic Chemistry. February, 232–238.
Geiger, L.; Madden, S. P.; Wilson, W.; Dong, A.; Mecklin, C. J. Multiple Linear Regression Using a Graphing Calculator. Applications in Biochemistry and Physical Chemistry. (CBB) June, 903–907.
Gelder, J. I.; Burke, K. A.; Greenbowe, T. J. The Multi-Initiative Dissemination Project Workshops: Who Attends Them and How Effective Are They? June, 897–902.
Gelfand, Y.; Sadik, O. A.; Wanekaya, A. K. Pressure-Assisted Chelating Extraction as a Teaching Tool in Instrumental Analysis. August, 1177–1181.
Geng, Z.; Song, Y.; Wang, Y. Some Exercises Reflecting Green Chemistry Concepts. (Green Chemistry) May, 691–692.
Giancarlo, L. C.; Slunt, K. M. The Dog Ate My Homework: A Cooperative Learning Project for Instrumental Analysis. June, 868–869.
Giancarlo, L. C.; Slunt, K. M. Student-Centered Learning: A Comparison of Two Different Methods of Instruction. July, 985–988.
Gibson, L. T.; Reglinski, J.; Graham, D.; Kennedy, A. R. From Metalloproteins to Coordination Chemistry: A Learning Exercise To Teach Transition Metal Chemistry. January, 76–82.
Gifford, L. K.; Eckenrode, H. M.; Rogers, L. C. A Partnership Incorporating Labs into an Existing Chemistry Curriculum: Access Science. (SSC) October, 1505–1509.
Gift, A. D.; Ben-Amotz, D.; Levine, R. D. Updated Principle of Corresponding States. January, 142–146.
Gil, M. L.; Poce-Fatou, J. A.; Alcántara, R.; Botella, C.; Martín, J. A Photochemical Reactor for the Study of Kinetics and Adsorption Phenomena. April, 537–539.
Gillespie, R. J. Teaching Molecular Geometry with the VSEPR Model. (Commentary) March, 298–304.
Gindt, Y. M.; Darveau, S. A.; Mueller, J.; Vaverka, A.; Barta, C.; Fitch, A.; Jurzenski, J. A Modular Laser Apparatus for Polarimetry, Nephelometry, and Fluorimetry in General Chemistry. (TICI) March, 401–405.
Ginion, K. E.; Yoder, C. H. Preparation and Analysis of Libethenite. A Project for the First-Year Laboratory. March, 394.
Glasfeld, A. Biochemistry: The Chemical Reactions of Living Cells, 2nd Edition (by David E. Metzler). (BMR) May, 646–647.
Glasser, L. Correction to "Water, Water, Everywhere: Phase Diagrams of Ordinary Water Substance" (re *J. Chem. Educ.* **2004**, *81*, 414–418). (Correction) May, 645.
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Godwin, H. A.; McFarland, A. D.; Haynes, C. L.; Van Duyne, R. P. Color My Nanoworld. (*JCE* Classroom Activity) April, 544A–544B.

Goebel, A.; Vos, T.; Louwagie, A.; Lundbohm, L.; Brown, J. H. Lead-Testing Service to Elementary and Secondary Schools Using Anodic Stripping Voltammetry. (CFK) February, 214–217.

Goh, N.; Tan, K. C.; Chia, L.; Treagust, D. F. Major Sources of Difficulty in Students' Understanding of Basic Inorganic Qualitative Analysis. (CER) May, 725–732.

Gojon, G. Coulometric Titrations in Wine Samples (re *J. Chem. Educ.* **2002**, *79*, 103–105). (Letter) January, 35.

Goldman, E. W.; Clough, S. C.; Kanters, R. P. Chem 111: A General Education Course in Organic Structure Determination. June, 834–836.

Golombok, M. Steam Hydrocarbon Cracking and Reforming. February, 228–231.

Gomes, M. S.; Oliveira, M. O.; Fonseca, M. A.; Oliveira, J. A. An Expeditious Experiment To Determine the Faraday Constant. January, 116–118.

González-Ferrer, G.; Seco, M. Potassium Tris(oxalato)-ferrate(III): A Versatile Compound To Illustrate the Principles of Chemical Equilibria. August, 1193–1195.

González-Gaitano, G.; Tardajos, G. Chemical Equilibrium in Supramolecular Systems as Studied by NMR Spectrometry. February, 270–274.

González-García, J.; Sánchez-Sánchez, C. M.; Expósito, E.; Frías-Ferrer, A.; Montiel, V.; Aldaz, A. Chlor-Alkali Industry: A Laboratory Scale Approach. May, 698–700.

Gooch, E. E. Fundamentals of Medicinal Chemistry (by Gareth Thomas). (BMR) September, 1271–1272.

Gooch, E. E. Medicinal Chemistry—An Introduction (by Gareth Thomas). (BMR) September, 1271–1272.

Goodwin, T. E. An Asymptotic Approach to the Development of a Green Organic Chemistry Laboratory. (Green Chemistry) August, 1187–1190.

Goodyer, N.; Harpp, D. N.; Fenster, A. E.; Schwarcz, J. A.; Zorychta, E.; Hsiao, W.; Parente, J. Lecture Retrieval via the Web: Better Than Being There? May, 688–690.

Goyal, S.; Pandita, S.; Arif, N.; Passey, S. An Efficient Procedure for Microscale Synthesis of Semicarbazones. January, 108.

Graham, D.; Reglinski, J.; Kennedy, A. R.; Gibson, L. T. From Metalloproteins to Coordination Chemistry: A Learning Exercise To Teach Transition Metal Chemistry. January, 76–82.

Greca, I. M.; Serrano, A.; Santos, F. M. Teaching Ionic Solvation Structure with a Monte Carlo Liquid Simulation Program. September, 1322–1329.

Green, W. J.; Elliott, C.; Cummins, R. H. "Prompted" Inquiry-Based Learning in the Introductory Chemistry Laboratory. February, 239–241.

Greenbowe, T. J.; Burke, K. A.; Freilich, M.; Harwood, W. S. Chemistry Everywhere. The 18th Biennial Conference on Chemical Education, Iowa State University, July 18–22, 2004. April, 458–461.

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Greenbowe, T. J.; Yang, E.; Andre, T. The Effective Use of an Interactive Software Program To Reduce Students' Misconceptions about Batteries. (TECH) April, 587–595.

Greer, A. E.; Myrick, M. L.; Colavita, P. E.; Long, B.; Andreatta, D. Use of Molecular Symmetry To Describe Pauli Principle Effects on the Vibration–Rotation Spectroscopy of $CO_2$(g). March, 379–382.

Gribble, G. W. Natural Organohalogens: A New Frontier for Medicinal Agents? (POC) October, 1441–1449.

Griffin, G. W.; Quach, H. T.; Steeper, R. L. An Improved Method for the Extraction and Thin-Layer Chromatography of Chlorophyll a and b from Spinach. March, 385–387.

Griffith, W. E.; Mason, D. S.; Hogue, S. E.; Holley, K.; Hunter, K. Discrepant Event: The Great Bowling Ball Float-Off. September, 1309–1312.

Grimes, R. N. Viewpoints: Boron Clusters Come of Age. May, 657–672.

Gross, R. A., Jr. A Mass Spectral Chlorine Rule for Use in Structure Determinations in Sophomore Organic Chemistry. August, 1161–1168.

Gugliotti, M. Tears of Wine. (TD) January, 67–68.

Gugliotti, M.; Baptista, M. S.; Politi, M. J. Surface Tension Gradients Induced by Temperature: The Thermal Marangoni Effect. (TD) June, 824–826.

Gung, B. W.; Taylor, R. T. Parallel Combinatorial Synthesis of Azo Dyes. A Combinatorial Experiment Suitable for Undergraduate Laboratories. November, 1630–1632.

Guzmán, M. E.; Vera, L. R.; Ortega, P. A. Kinetica: An Excel Program To Simulate or Analyze Kinetic Data. (*JCE* WebWare) January, 159.


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Haddad, P. R.; Shaw, M. J.; Madden, J. E.; Dicinoski, G. W. A Computer-Based Undergraduate Exercise Using Internet-Accessible Simulation Software for the Study of Retention Behavior and Optimization of Separation Conditions in Ion Chromatography. (Waters Symposium) September, 1293–1298.

Hahn, K. E.; Polik, W. F. Factors Influencing Success in Physical Chemistry. (CER) April, 567–572.

Hale, P. S.; Waclawik, E. R.; Ford, M. J.; Shapter, J. G.; Voelcker, N. H. Liquid-Crystal Displays: Fabrication and Measurement of a Twisted Nematic Liquid-Crystal Cell. June, 854–858.

Halkides, C. J. Classroom Demonstration of a Spot Test for Phenylpyruvic Acid and Its Relationship to Phenylketonuria. (TD) March, 366–367.

Hall, J. W.; Dahm, C. E.; Mattioni, B. E. A Laser-Pointer-Based Spectrometer for Endpoint Detection of EDTA Titrations. December, 1787–1789.

Halpine, S. M. Introducing Molecular Visualization to Primary Schools in California: The STArt! *teaching* Science Through Art Program. (CFK) October, 1431–1436.

Hannon, T. E.; Whelan, R. J.; Zare, R. N.; Rakestraw, D. J. Application of Ion Chromatography to the Investigation of Real-World Samples. September, 1299–1302.

Hansen, L. D.; McCarlie, V. W. From Foam Rubber to Volcanoes: The Physical Chemistry of Foam Formation. November, 1581–1584.

Hardesty, D. L.; Fleming, F. F.; Bodnar, D. J. Sink Inserts for Flood Prevention. (CET) September, 1344.

Harpp, D. N. Communicating Chemistry—From Large Classes to the Larger Public. 2003 James Flack Norris Award, sponsored by the ACS Northeast Section. June, 786–790.

Harpp, D. N.; Fenster, A. E.; Schwarcz, J. A.; Zorychta, E.; Goodyer, N.; Hsiao, W.; Parente, J. Lecture Retrieval via the Web: Better Than Being There? May, 688–690.

Harris, H. H. Galileo's Finger: The Ten Great Ideas of Science (by Peter Atkins). (BMR) October, 1423.

Harris, H. H.; Kovac, J. D.; Pagni, R. M.; Coppola, B. P. Summer Reading 2004. June, 778–784.

Harwood, W. S.; Burke, K. A.; Freilich, M.; Greenbowe, T. J. Chemistry Everywhere. The 18th Biennial Conference on Chemical Education, Iowa State University, July 18–22, 2004. April, 458–461.

Hawkes, S. J. Chemistry Is *NOT* a Laboratory Science. (Commentary) September, 1257.

Hawkes, S. J. The Concept of Density. (Commentary) January, 14–15.

Hawkes, S. J. Formula for Ammonia Monohydrate. (Letter) November, 1569.

Hawkes, S. J. Gravimetric Titrations: Save Time, Expense and Error by Using Weight Burets. (Letter) December, 1715.

Hawkes, S. J. Reaction to Why Do We Teach Equilibrium Calculations?—Author Reply (re *J. Chem. Educ.* **2003**, *80*, 1381). (Letter) September, 1265.

Haynes, C. L.; McFarland, A. D.; Van Duyne, R. P.; Godwin, H. A. Color My Nanoworld. (*JCE* Classroom Activity) April, 544A–544B.

Heil, K. M.; Voegel, P. D.; Quashnock, K. A. The Student-to-Student Chemistry Initiative: Training High School Students To Perform Chemistry Demonstration Programs for Elementary School Students. May, 681–684.

Heineman, W. R.; Shtoyko, T.; Zudans, I.; Seliskar, C. J.; Richardson, J. N. An Attenuated Total Reflectance Sensor for Copper. An Experiment for Analytical or Physical Chemistry. November, 1617–1619.

Heinhorst, S.; Cannon, G. *Nature:* Chemistry in Sickness and in Health. (ROJNature) October, 1404–1405.

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Helser, T. L. Functional Group Wordsearch. April, 517–518.

Helser, T. L. Organic Chemistry Wordsearch. April, 515–516.

Henderleiter, J.; Karpen, M. E.; Schaertel, S. A. Integrating Computational Chemistry into the Physical Chemistry Laboratory Curriculum: A Wet Lab/Dry Lab Approach. (NSF) April, 475–477.

Henriksson, U.; Eriksson, J. C. Thermodynamics of Capillary Rise: Why Is the Meniscus Curved? January, 150–154.

Henry, I.; Stocksdale, M. G.; Fletcher, S. E.; Ogren, P. J.; Berg, M. A.; Pointer, R. D.; Benson, B. W. Developing Investigation Skills in an Introductory Multistep Synthesis Using Fluorene Oxidation and Reduction. March, 388–390.

Hercules, D. M. Electron Spectroscopy: Applications for Chemical Analysis. (Waters Symposium) December, 1751–1766.

Herrmann, J. K.; Spudich, T. M.; Fietkau, R.; Edwards, G. A.; McCurdy, D. L. Determination of Pb in Biological Samples by Graphite Furnace Atomic Absorption Spectrophotometry. An Exercise in Common Interferences and Fundamental Practices in Trace Element Determination. February, 262–265.

Hess, B. J.; Nataro, C.; Ferguson, M. A.; Bocage, K. M.; Ross, V. J.; Swarr, D. T. Lewis Acid–Base, Molecular Modeling, and Isotopic Labeling in a Sophomore Inorganic Chemistry Laboratory. May, 722–724.

Hess, K. R.; Schilling, A. L.; Leber, P. A.; Yoder, C. H. A Simulation of the Interaction of Acid Rain with Soil Minerals. February, 246–247.

Hessley, R. K. A Computational-Modeling Course for Undergraduate Students in Chemical Technology. August, 1140–1144.

Hill, B. A.; Newton, T. A. Using Conductivity Devices in Nonaqueous Solutions I: Demonstrating the $S_N1$ Mechanism. (TD) January, 58–60.

Hill, B. A.; Newton, T. A. Using Conductivity Devices in Nonaqueous Solutions II: Demonstrating the $S_N2$ Mechanism. (TD) January, 61–62.

Hoffmann, M. M. A Classroom Exercise Aimed at the Development of an Intuitive Understanding of *P–V–T* Phase Behavior of Fluids. March, 376–378.

Hoffmann, M. M.; Salter, J. D. Measuring *P–V–T* Phase Behavior with a Variable Volume View Cell. March, 411–413.

Hogue, S. E.; Mason, D. S.; Griffith, W. F.; Holley, K.; Hunter, K. Discrepant Event: The Great Bowling Ball Float-Off. September, 1309–1312.

Holden, M. S.; Crouch, R. D.; Romany, C. A. The Darzens Condensation: Structure Determination through Spectral Analysis and Understanding Substrate Reactivity. May, 711–712.

Holland, L. A.; Tomechko, S.; Bentivegna, A. M.; Oommen, A.; Bradford, A.; Burns, A. E. Real-Time Distance Research with IP Network Videoconferencing: Extending Undergraduate Research Opportunities. (TECH) August, 1224–1228.

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Holley, K.; Mason, D. S.; Hunter, K. Bowling for Density! (*JCE* Classroom Activity) September, 1312A–1312B.

Hollingsworth, W. E.; Cass, M. E. Moving Beyond the Single Center—Ways To Reinforce Molecular Orbital Theory in an Inorganic Course. July, 997–1005.

Holman, J.; Pilling, G. Thermodynamics in Context. A Case Study of Contextualized Teaching for Undergraduates. March, 373–375.

Holman, R. W. Organic Chemistry as a Second Language: Translating the Basic Concepts (by David R. Klein). (BMR) December, 1717–1718.

Holme, T. A.; Sarquis, J. L.; Cooper, M. M.; White, C. Executive Committee Report, April 2004. (CHED) July, 940–943.

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Holmes, J. L. *JCE* Back Issues—Here Come Some More! (*JCE* Online) September, 1376.

Holmes, J. L. *Journal of Chemical Education* on CD-ROM, 2003. Abstract of *JCE* CD 2003. (*JCE* Software) February, 288.

Holt, P. L. Intermolecular Potentials and the Second Virial Coefficient. (*JCE* SymMath) April, 607–608.

Hoops, G. C.; Persinger, J. D.; Samide, M. J. Mass Spectrometry for the Masses. August, 1169–1171.

Hope, W. W.; Johnson, C.; Johnson, L. P. Tetraglyme Trap for the Determination of Volatile Organic Compounds in Urban Air. Projects for Undergraduate Analytical Chemistry. August, 1182–1186.

Horowitz, G. Molecular Modeling of Non-Trivial Cyclohexane Derivatives and Analogs: A Discovery Approach. (MMEE) July, 1006–1009.

Horowitz, G.; Schwartz, G. Exploring Organic Mechanistic Puzzles with Molecular Modeling. (MMEE) August, 1136–1139.
Hsiao, W.; Harpp, D. N.; Fenster, A. E.; Schwarcz, J. A.; Zorychta, E.; Goodyer, N.; Parente, J. Lecture Retrieval via the Web: Better Than Being There? May, 688–690.
Huffman, J.; Williamson, V. M.; Peck, M. L. Testing Students' Use of the Particulate Theory. (CER) June, 891–896.
Huffman, L. M.; McKenzie, L. C.; Parent, K. E.; Hutchison, J. E.; Thompson, J. Patterning Self-Assembled Monolayers on Gold. Green Materials Chemistry in the Teaching Laboratory. (Green Chemistry) April, 545–548.
Hunnes, C. H.; Dooley, D. M. Research Partnership between Teaching-Centered and Research-Intensive Schools. July, 989–990.
Hunt, W. F.; Oliver-Hoyo, M. T.; Allen, D.; Hutson, J.; Pitts, A. Effects of an Active Learning Environment: Teaching Innovations at a Research I Institution. (CER) March, 441–448.
Hunter, K.; Holley, K.; Mason, D. S. Bowling for Density! (*JCE* Classroom Activity) September, 1312\–1312B.
Hunter, K.; Mason, D. S.; Griffith, W. F.; Hogue, S. E.; Holley, K. Discrepant Event: The Great Bowling Ball Float-Off. September, 1309–1312.
Hutchison, J. E.; McKenzie, L. C.; Huffman, L. M.; Parent, K. E.; Thompson, J. Patterning Self-Assembled Monolayers on Gold. Green Materials Chemistry in the Teaching Laboratory. (Green Chemistry) April, 545–548.
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## I

Ibañez, J. G.; Tellez-Giron, M.; Alvarez, D.; Garcia-Pintor, E. Laboratory Experiments on the Electrochemical Remediation of the Environment. Part 6: Microscale Production of Ferrate. (ML) February, 251–254.
Ingersoll, C. M. The Practice of Chemistry (by Donald J. Wink, Sharon Fetzer-Gislason, Sheila D. McNicholas). (BMR) January, 36–37.

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Jacob, C. Critical Thinking in the Chemistry Classroom and Beyond. (CER) August, 1216–1223.
Jacobsen, E. K. The Chat Stool. (EHST) July, 921.
Jacobsen, E. K. Chemistry in My Kitchen. (EHST) October, 1385.
Jacobsen, E. K. An Earth Day That Counts. (EHST) February, 169.
Jacobsen, E. K. National Chemistry Week 2004: Health and Wellness. *JCE* Resources for Chemistry: Health and Wellness. October, 1390–1396.
Jacobsen, E. K. Water Filtration. (*JCE* Classroom Activity) February, 224A–224B.
Jacobsen, E. K.; Maynard, J. H. Iron in Breakfast Cereal. Demonstrations for National Chemistry Week 2004. November, 1544.
Jannes, G.; Puttemans, J. The Singlet States of Molecular Oxygen (re *J. Chem. Educ.* **2002**, *79*, 356–359). (Letter) May, 639.
*JCE* Editorial Staff. Calories—Who's Counting? (*JCE* Classroom Activity) October, 1440A–1440B.
*JCE* Editorial Staff. Classroom, Homework, Quiz, and Exam Questions. (RSA) January, 158.
*JCE* Editorial Staff. Conant Award Interview: An Interview with Toni Watt, 2004 Award Winner. November, 1552–1558.
*JCE* Editorial Staff. *JCE* Digital Library Grand Opening. January, 17.
*JCE* Editorial Staff. A Magnetic Meal. (*JCE* Classroom Activity) November, 1584A–1584B.
Jemal, M. The Purification of Water by Zone Melting: A Phase Diagram Interpretation (re *J. Chem. Educ.* **2001**, *78*, 1373). (Letter) July, 952.
Jenkins, J. D.; Orvis, J. N.; Smith, C. J.; Manley, C.; Rice, J. K. Including Non-Traditional Instrumentation in Undergraduate Environmental Chemistry Courses. (NSF) January, 22–23.
Jensen, W. B. Campbell's Rule for Estimating Entropy Changes: Refining Campbell's Rule (re *J. Chem. Educ.* **2003**, *80*, 1432–1436). (Letter) November, 1570.
Jensen, W. B. Did Lavoisier Blink? (Ask the Historian) May, 629.
Jensen, W. B. Empirical Formulas and the Solid State: A Proposal. December, 1772–1774.
Jensen, W. B. Entropy and Constraint of Motion (re *J. Chem. Educ.* **2002**, *79*, 1241–1246). (Letter) May, 639–640.
Jensen, W. B. The Origin of Alcohol Proof. (Ask the Historian) September, 1258.
Jensen, W. B. The Origin of the Mole Concept. (Ask the Historian) October, 1409.
Jensen, W. B. The Origin of Vinyl. (Ask the Historian) April, 464.
Jensen, W. B. The Symbol for pH. (Ask the Historian) January, 21.
Jensen, W. B. Why Helium Ends in "-ium". (Ask the Historian) July, 944.
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Moore, J. W. A *Chemistry Leaflet* for Today's Students. (Editorial) November, 1543.
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Moore, J. W. Iceberg *JCE*: Exploring the Invisible Nine-Tenths. (Editorial) October, 1383.
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Moore, J. W. New Year's Resolution: Expunge Misbeliefs. (Editorial) January, 7.
Moore, J. W. Revisiting the Tragedy of the Commons. (Editorial) May, 615.
Moore, J. W. Scientists, Engineers, and Community Colleges. (Editorial) September, 1239.
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Ng, T. W. Measuring Viscoelastic Deformation with an Optical Mouse. (CET) November, 1628–1629.
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Nielsen, J. T.; Duarte, R.; Dragojlovic, V. Synthesis of Chemiluminescent Esters: A Combinatorial Synthesis Experiment for Organic Chemistry Students. July, 1010–1015.
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Oommen, A.; Holland, L. A.; Tomechko, S.; Bentivegna, A. M.; Bradford, A.; Burns, A. E. Real-Time Distance Research with IP Network Videoconferencing: Extending Undergraduate Research Opportunities. (TECH) August, 1224–1228.
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Pagni, R. M. Free Energy Relationships in Organic and Bio-Organic Chemistry (by Andrew Williams). (BMR) June, 807–808.
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Palma, M.; Barroso, C. G. Acid–Base and Precipitation Equilibria in Wine. January, 94–96.
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1964 and 1984. (FPI) Williams, K. R. September, 1251–1253.
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## Corrections

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An Acid Hydrocarbon: A Chemical Paradox. (TD) Burke, J. T. January, 65–66.
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Analysis of an Air Conditioning Coolant Solution for Metal Contamination Using Atomic Absorption Spectroscopy. An Undergraduate Instrumental Analysis Exercise Simulating an Industrial Assignment. Baird, M. J. February, 259–261.
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Application of a Datalogger in Biosensing: A Reagentless Hydrogen Peroxide Biosensor. (CBB) Ma, L.; Choi, M. M. June, 862–864.
Application of Light-Emitting Diodes and Photodiodes Coupled to Optic Fibers To Study the Dependence of Liquid Viscosity on Temperature. Victoria, L.; Arenas, A.; Molina, C. September, 1333–1336.
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The Development of Commercial ESCA Instrumentation: A Personal Perspective. (Waters Symposium) Kelly, M. A. December, 1726–1733.
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Pressure-Assisted Chelating Extraction as a Teaching Tool in Instrumental Analysis. Sadik, O. A.; Wanekaya, A. K.; Gelfand, Y. August, 1177–1181.
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Application of Light-Emitting Diodes and Photodiodes Coupled to Optic Fibers To Study the Dependence of Liquid Viscosity on Temperature. Victoria, L.; Arenas, A.; Molina, C. September, 1333–1336.
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Creating Time for Research. Recommendations from Faculty at Predominantly Undergraduate Institutions. (CUR) Karukstis, K. K. November, 1550–1551.
Critical Thinking in the Chemistry Classroom and Beyond. (CER) Jacob, C. August, 1216–1223.
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Cis and Trans Isomerization in Cyclic Alkenes: A Topic for Discovery Using the Results of Molecular Modeling. (TECH) Barrows, S. E.; Eberlein, T. H. October, 1529–1532.
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Coumarin, Naphthalene, and Additional Polycyclic Aromatic Hydrocarbons. (Featured Molecules) Coleman, W. F. June, 912.
A Discovery-Based Friedel–Crafts Acylation Experiment: Student-Designed Experimental Procedure. Reeve, A. M. October, 1497–1499.
The "Dissing" of Niels Bohr. (Letter) Peterson, A. R. January, 33.
Enantiomer Specificity in Pharmaceuticals. (Featured Molecules) Coleman, W. F. July, 981.
Exploring Organic Mechanistic Puzzles with Molecular Modeling. (MMEE) Horowitz, G.; Schwartz, G. August, 1136–1139.
Exploring the Structure–Function Relationship of Macromolecules at the Undergraduate Level. (MMEE) Pastrana-Rios, B. June, 837–840.
Introducing Molecular Visualization to Primary Schools in California: The STArt! *teaching* Science Through Art Program. (CFK) Halpine, S. M. October, 1431–1436.
Lewis Acid–Base, Molecular Modeling, and Isotopic Labeling in a Sophomore Inorganic Chemistry Laboratory. Nataro, C.; Ferguson, M. A.; Bocage, K. M.; Hess, B. J.; Ross, V. J.; Swarr, D. T. May, 722–724.
Modeling Chemical and Biological Systems: A Successful Course for Undergraduate Students. Ramos, M. J.; Fernandes, P. A.; Melo, A. January, 72–75.
Modeling the Hydrogen Bond within Molecular Dynamics. Lykos, P. January, 147–149.
Molecular Dynamics Simulations of Simple Liquids. Speer, O. F.; Wengerter, B. C.; Taylor, R. S. September, 1330–1332.
Molecular Modeling of Environmentally Important Processes: Reduction Potentials. Lewis, A.; Bumpus, J. A.; Truhlar, D. G.; Cramer, C. J. April, 596–604.
Molecular Modeling of Non-Trivial Cyclohexane Derivatives and Analogs: A Discovery Approach. (MMEE) Horowitz, G. July, 1006–1009.
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Molecular Tweezers. (Featured Molecules) Coleman, W. F. December, 1818.
Moving Beyond the Single Center—Ways To Reinforce Molecular Orbital Theory in an Inorganic Course. Cass, M. E.; Hollingsworth, W. E. July, 997–1005.
Parallel Combinatorial Synthesis of Azo Dyes. (Featured Molecules) Coleman, W. F. November, 1680.
Perfume Chemistry: Jasmone, α-Damascone, Geraniol, Civetone, and Musk Baur. (Featured Molecules) Coleman, W. F. January, 57.
Polycyclic Aromatic Hydrocarbons. (Featured Molecules) Coleman, W. F. February, 245.
A Program of Computational Chemistry Exercises for the First-Semester General Chemistry Course. (MMEE) Feller, S. E.; Dallinger, R. F.; McKinney, P. C. February, 283–287.
Sunscreens. (Featured Molecules) Coleman, W. F. October, 1491.
Teaching Ionic Solvation Structure with a Monte Carlo Liquid Simulation Program. Serrano, A.; Santos, F. M.; Greca, I. M. September, 1322–1329.
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Exploring Organic Mechanistic Puzzles with Molecular Modeling. (MMEE) Horowitz, G.; Schwartz, G. August, 1136–1139.
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### Molecular Properties / Structure

3D Normal Modes Shockwave: Three-Dimensional Perception of Molecular Normal Modes on the Web. (*JCE* WebWare) Charistos, N. D.; Tsipis, C. A.; Sigalas, M. P. August, 1231–1232.
Alkaloids: Strychnine, Codeine, Heroin, and Morphine. (Featured Molecules) Coleman, W. F. September, 1366.
The Big Picture. (Featured Molecules) Coleman, W. F. April, 604.
Bioorganic Synthesis: Monosodium Glutamate and Other Amino Acids. (Featured Molecules) Coleman, W. F. March, 448.
Boiling Point versus Mass—Author Reply (re *J. Chem. Educ.* **2001**, *79*, 1544). (Letter) Laing, M. May, 642.
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Chem 111: A General Education Course in Organic Structure Determination. Clough, S. C.; Kanters, R. P.; Goldman, E. W. June, 834–836.
Chemical Equilibrium in Supramolecular Systems as Studied by NMR Spectrometry. González-Gaitano, G.; Tardajos, G. February, 270–274.
Chocolate: Theobromine and Caffeine. (Featured Molecules) Coleman, W. F. August, 1232.
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Coumarin, Naphthalene, and Additional Polycyclic Aromatic Hydrocarbons. (Featured Molecules) Coleman, W. F. June, 912.
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Effects of Exchange Energy and Spin–Orbit Coupling on Bond Energies. Smith, D. W. June, 886–890.
Enantiomer Specificity in Pharmaceuticals. (Featured Molecules) Coleman, W. F. July, 981.
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Fluorescence, Absorption, and Excitation Spectra of Polycyclic Aromatic Hydrocarbons as a Tool for Quantitative Analysis. Rivera-Figueroa, A. M.; Ramazan, K. A.; Finlayson-Pitts, B. J. February, 242–245.
How Many Digits Should We Use in Formula or Molar Mass Calculations? Svensson, C. June, 827–829.
A Model for the Chemical Bond. Magnasco, V. March, 427–435.
Molecular Dynamics Simulations of Simple Liquids. Speer, O. F.; Wengerter, B. C.; Taylor, R. S. September, 1330–1332.
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A Solid-State NMR Experiment: Analysis of Local Structural Environments in Phosphate Glasses. Anderson, S. E.; Saiki, D.; Eckert, H.; Meise-Gresch, K. July, 1034–1037.
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Teaching Molecular Geometry with the VSEPR Model. (Commentary) Gillespie, R. J. March, 298–304.
Use of Molecular Symmetry To Describe Pauli Principle Effects on the Vibration–Rotation Spectroscopy of $CO_2$(g). Myrick, M. L.; Colavita, P. E.; Greer, A. E.; Long, B.; Andreatta, D. March, 379–382.
Use of Optical Rotation and NMR Signal Counting To Identify Common Aldoses. Almy, J. May, 708–710.

### Molybdenum

Inorganic Fullerenes, Onions, and Tubes. (POC) York, A. P. May, 673–676.

### Multimedia-Based Learning

3D Normal Modes Shockwave: Three-Dimensional Perception of Molecular Normal Modes on the Web. (*JCE* WebWare) Charistos, N. D.; Tsipis, C. A.; Sigalas, M. P. August, 1231–1232.
Bioorganic Synthesis: Monosodium Glutamate and Other Amino Acids. (Featured Molecules) Coleman, W. F. March, 448.
Cognitive Theory and the Design of Multimedia Instruction. (ROJResLit) Robinson, W. R. January, 10–13.
Computational Chemistry Using the PC (by Donald W. Rogers). (BMR) Pounds, A. J. October, 1423–1424.
CrystalMaker V6.3.5, CD-ROM [for Mac OS X and OS 7.1-9.2] (by David Palmer). (BMR) Cahill, C. L. November, 1575–1576.
The Effective Use of an Interactive Software Program To Reduce Students' Misconceptions about Batteries. (TECH) Yang, E.; Greenbowe, T. J.; Andre, T. April, 587–595.
Iceberg *JCE*: Exploring the Invisible Nine-Tenths. (Editorial) Moore, J. W. October, 1383.
Introducing Molecular Visualization to Primary Schools in California: The STArt! *teaching* Science Through Art Program. (CFK) Halpine, S. M. October, 1431–1436.
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Lecture Retrieval via the Web: Better Than Being There? Harpp, D. N.; Fenster, A. E.; Schwarcz, J. A.; Zorychta, E.; Goodyer, N.; Hsiao, W.; Parente, J. May, 688–690.
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### Nanotechnology

Color My Nanoworld. (*JCE* Classroom Activity) McFarland, A. D.; Haynes, C. L.; Van Duyne, R. P.; Godwin, H. A. April, 544A–544B.
Fluorescence Microscopy of Single Molecules. (TICI) Zimmermann, J. H.; van Dorp, A.; Renn, A. April, 553–557.
Improvements in the Reliability of X-ray Photoelectron Spectroscopy for Surface Analysis. (Waters Symposium) Powell, C. J. December, 1734–1750.
Inorganic Fullerenes, Onions, and Tubes. (POC) York, A. P. May, 673–676.
Patterning Self-Assembled Monolayers on Gold. Green Materials Chemistry in the Teaching Laboratory. (Green Chemistry) McKenzie, L. C.; Huffman, L. M.; Parent, K. E.; Hutchison, J. E.; Thompson, J. April, 545–548.
Research Advances: Bio-Bar-Codes Speed DNA Detection; Treating Cystic Fibrosis from the Spice Rack; *Salmonella* versus Salsa. (ROJResAdv) King, A. G. October, 1386–1389.
Research Advances: Hydrophobicity On/Off Switch; Nitrite as a Potential Therapeutic Agent; Mollusks as Farmers; Clotting Gene. (ROJResAdv) King, A. G. July, 934–936.
Research Advances: Nanoscale Molecular Tweezers; Cinnamon as Pesticide?; Recently Identified Dietary Sources of Antioxidants. (ROJResAdv) King, A. G. December, 1690–1694.

Research Advances: Roundup Shutdown; Dietary Source of Poison Frog Toxins; Generation of Copper(II) Oxide "Dandelions". (ROJResAdv) King, A. G. November, 1546–1548.
"We Actually Saw Atoms with Our Own Eyes". Conceptions and Convictions in Using the Scanning Tunneling Microscope in Junior High School. (CER) Margel, H.; Eylon, B.; Scherz, Z. April, 558–566.
Why Do Marbles Become Paler on Grinding? Reflectance Spectroscopy, Color, and Particle Size. Lagorio, M. G. November, 1607–1611.

## National Chemistry Week 2004: Health and Wellness

The Bisphosphonate Story: From Detergents to Bone Disease. (FPI) Williams, K. R. October, 1406–1407.
Calories—Who's Counting? (*JCE* Classroom Activity) *JCE* Editorial Staff. October, 1440A–1440B.
Chemistry.org/kids. A Great Resource for Elementary School Science Activities. (ACS) Kessler, J. October, 1398–1400.
Eisenhower National Clearinghouse for Mathematics and Science Education: A National Chemistry Week Resource. Lightle, K. S. October, 1402.
Iron in Breakfast Cereal. Demonstrations for National Chemistry Week 2004. Jacobsen, E. K.; Maynard, J. H. November, 1544.
A Magnetic Meal. (*JCE* Classroom Activity) *JCE* Editorial Staff. November, 1584A–1584B.
National Chemistry Week 2004: Health and Wellness. *JCE* Resources for Chemistry: Health and Wellness. Jacobsen, E. K. October, 1390–1396.
*Nature:* Chemistry in Sickness and in Health. (ROJNature) Heinhorst, S.; Cannon, G. October, 1404–1405.
Research Advances: Bio-Bar-Codes Speed DNA Detection; Treating Cystic Fibrosis from the Spice Rack; *Salmonella* versus Salsa. (ROJResAdv) King, A. G. October, 1386–1389.

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Caveman Chemistry: 28 Projects, from the Creation of Fire to the Production of Plastics (by Kevin M. Dunn). (BMR) Matthews, M. S. April, 490–491.
Chemistry of St. John's Wort: Hypericin and Hyperforin. Vollmer, J. J.; Rosenson, J. October, 1450–1456.
Chemistry Perfumes Your Daily Life. (POC) Fortineau, A. January, 45–50.
Chocolate: A Marvelous Natural Product of Chemistry. (POC) Tannenbaum, G. August, 1131–1135.
An Improved Method for the Extraction and Thin-Layer Chromatography of Chlorophyll a and b from Spinach. Quach, H. T.; Steeper, R. L.; Griffin, G. W. March, 385–387.
The Molecular Structure of Penicillin. Bentley, R. October, 1462–1470.
The Monosodium Glutamate Story: The Commercial Production of MSG and Other Amino Acids. (POC) Ault, A. March, 347–355.
Natural Organohalogens: A New Frontier for Medicinal Agents? (POC) Gribble, G. W. October, 1441–1449.
Naturally Occurring Fish Poisons from Plants. Cannon, J. G.; Burton, R. A.; Wood, S. G.; Owen, N. L. October, 1457–1461.
Nature's Sedative: Isolation and Structural Elucidation of Valtrate from *Centranthus ruber*. Doyle, A. M.; Reilly, J.; Murphy, N.; Kavanagh, P. V.; O'Brien, J. E.; Walsh, M. S.; Walsh, J. October, 1486–1487.
Quantitative Assay for Starch by Colorimetry Using a Desktop Scanner. Mathews, K. R.; Landmark, J. D.; Stickle, D. F. May, 702–704.
Research Advances: Bio-Bar-Codes Speed DNA Detection; Treating Cystic Fibrosis from the Spice Rack; *Salmonella* versus Salsa. (ROJResAdv) King, A. G. October, 1386–1389.
Research Advances: Nanoscale Molecular Tweezers; Cinnamon as Pesticide?; Recently Identified Dietary Sources of Antioxidants. (ROJResAdv) King, A. G. December, 1690–1694.
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## Neodymium

Demonstrating and Measuring Relative Molar Magnetic Susceptibility Using a Neodymium Magnet. (TD) Malerich, C.; Ruff, P. K. August, 1155–1160.

## Nickel

Inorganic Fullerenes, Onions, and Tubes. (POC) York, A. P. May, 673–676.
Isolation of Copper from a 5-Cent Coin. An Example of Electrorefining. (2AP) Sogo, S. G. April, 530–531.

## NMR Spectrometry / Spectroscopy

Chemical Equilibrium in Supramolecular Systems as Studied by NMR Spectrometry. González-Gaitano, G.; Tardajos, G. February, 270–274.
Competition Experiments as a Means of Evaluating Linear Free Energy Relationships. An Experiment for the Advanced Undergraduate Organic Chemistry Lab. Mullins, R. J.; Vedernikov, A.; Viswanathan, R. September, 1357–1361.
The Complexation of the $Na^+$ by 18-Crown-6 Studied via Nuclear Magnetic Resonance. Peters, S. J.; Stevenson, C. D. May, 715–717.
Conformational Analysis in an Advanced Integrated Laboratory Course. Ball, D. B.; Miller, R. M. January, 121–125.
The Darzens Condensation: Structure Determination through Spectral Analysis and Understanding Substrate Reactivity. Crouch, R. D.; Holden, M. S.; Romany, C. A. May, 711–712.
Determination of Spin–Lattice Relaxation Time Using $^{13}C$ NMR. An Undergraduate Physical Chemistry Laboratory Experiment. Gasyna, Z. L.; Jurkiewicz, A. July, 1038–1039.
Developing Investigation Skills in an Introductory Multistep Synthesis Using Fluorene Oxidation and Reduction. Stocksdale, M. G.; Fletcher, S. E.; Henry, I.; Ogren, P. J.; Berg, M. A.; Pointer, R. D.; Benson, B. W. March, 388–390.
A Discovery-Based Friedel–Crafts Acylation Experiment: Student-Designed Experimental Procedure. Reeve, A. M. October, 1497–1499.
Introducing the gNMR Program in an Introductory NMR Spectrometry Course To Parallel Its Use by Spectroscopists. (CBB) Rummey, J.; Boyce, M. May, 762–763.
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Modern Projects in Organic Chemistry: Miniscale and Standard Taper Microscale, 2nd Edition (by Jerry R. Mohrig, Christina Noring Hammond, Paul F. Schatz, and Terence C. Morrill). (BMR) Pagni, R. M. May, 649–651.
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An NMR Study of Isotope Effect on Keto–Enol Tautomerization. A Physical Organic Chemistry Experiment. Atkinson, D.; Chechik, V. July, 1030–1033.
Regioselective Synthesis of a Stereodefined Heterocyclic Push–Pull Alkene. $^1H$ NMR Studies and Two-Dimensional TLC Illustrating Z/E Isomerization. Marković, R.; Baranac, M.; Jovanović, V.; Džambaski, Z. July, 1026–1029.
Report: The Nobel Prize in Medicine for Magnetic Resonance Imaging. Fry, C. G. July, 922–932.
Research, Teaching, and Professional Development at a Comprehensive University. Ball, D. B.; Wood, M.; Lindsley, C.; Mollard, P.; Buzard, D. J.; Vivian, R.; Mahoney, M.; Taft, B. R. December, 1796–1800.
The Separation and Identification of Two Unknown Solid Organic Compounds. An Experiment for the Sophomore Organic Chemistry Laboratory. (ML) Feist, P. L. January, 109–110.
A Simplified Approach to Product Operator Formalism. Spiese, C. E. January, 134–137.
A Solid-State NMR Experiment: Analysis of Local Structural Environments in Phosphate Glasses. Anderson, S. E.; Saiki, D.; Eckert, H.; Meise-Gresch, K. July, 1034–1037.
Solvent-Free Synthesis of Chalcones. (Green Chemistry) Palleros, D. September, 1345–1347.
Solvent-Free Wittig Reaction: A Green Organic Chemistry Laboratory Experiment. (Green Chemistry) Leung, S. H.; Angel, S. A. October, 1492–1493.
Spectroscopic Properties of Some Simple Esters. A Practical Application of Synthesis and Spectroscopy in the Undergraduate Organic Laboratory. Brown, D. P.; Durutlic, H.; Juste, D. July, 1016–1017.
Superoxygenated Water as an Experimental Sample for NMR Relaxometry. Nestle, N.; Dakkouri, M.; Rauscher, H. July, 1040–1041.
Syntheses and Characterization of Ruthenium(II) Tetrakis(Pyridine) Complexes. An Advanced Coordination Chemistry Experiment or Mini-Project. Coe, B. J. May, 718–721.
The Synthesis and Isolation of *N-tert*-Butyl-2-phenylsuccinamic Acid and *N-tert*-Butyl-3-phenylsuccinamic Acid. An Undergraduate Organic Chemistry Laboratory Experiment. Cesare, V.; Sadarangani, I.; Rollins, J.; Costello, D. May, 713–714.
Synthesis and Resolution of the Atropisomeric 1,1'-Bi-2-naphthol: An Experiment in Organic Synthesis and 2-D NMR Spectroscopy. Mak, K. K. November, 1636–1640.
Two-Step Semi-Microscale Preparation of a Cinnamate Ester Sunscreen Analog. (ML) Stabile, R. G.; Dicks, A. P. October, 1488–1491.
Use of Optical Rotation and NMR Signal Counting To Identify Common Aldoses. Almy, J. May, 708–710.
Watching the Brain Think. (Editorial) Moore, J. W. July, 919.
Wittig Reaction Using a Stabilized Phosphorus Ylid: An Efficient and Stereoselective Synthesis of Ethyl *trans*-Cinnamate. Speed, T. J.; McIntyre, J. P.; Thamattoor, D. M. September, 1355–1356.

## Nomenclature / Units / Symbols

Etymology as an Aid to Understanding Chemistry Concepts. Sarma, N. S. October, 1437–1439.
Functional Group Wordsearch. Helser, T. L. April, 517–518.
Organic Chemistry Wordsearch. Helser, T. L. April, 515–516.
SI for Chemists: Persistent Problems, Solid Solutions. SI Basic Units: The Kilogram and the Mole (re *J. Chem. Educ.* **2003**, *80*, 16–21). (Letter) Karol, P. J. June, 800.
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SI for Chemists: Persistent Problems, Solid Solutions. SI for Chemists: Another Position (re *J. Chem. Educ.* **2003**, *80*, 16–21 and **2004**, *81*, 800). (Letter) Cvitaš, T. June, 801–802.
SI for Chemists: Persistent Problems, Solid Solutions. SI for Chemists: A Modification (re *J. Chem. Educ.* **2003**, *80*, 16–21). (Letter) Freeman, R. D. June, 802.
Why Helium Ends in "-ium". (Ask the Historian) Jensen, W. B. July, 944.

## Nonmajor Courses

Chem 111: A General Education Course in Organic Structure Determination. Clough, S. C.; Kanters, R. P.; Goldman, E. W. June, 834–836.
A Chemical Information Assignment for Nonscience Majors. (CII) Pence, L. E. May, 764–768.
Chemistry as General Education. Tro, N. J. January, 54–57.
Discrepant Event: The Great Bowling Ball Float-Off. Mason, D. S.; Griffith, W. F.; Hogue, S. E.; Holley, K.; Hunter, K. September, 1309–1312.
Including Non-Traditional Instrumentation in Undergraduate Environmental Chemistry Courses. (NSF) Jenkins, J. D.; Orvis, J. N.; Smith, C. J.; Manley, C.; Rice, J. K. January, 22–23.
Mass Spectrometry for the Masses. Persinger, J. D.; Hoops, G. C.; Samide, M. J. August, 1169–1171.
The Preparation and Testing of a Common Emulsion and Personal Care Product: Lotion. Mabrouk, S. T. January, 83–86.
Suggestions To Expand the Laboratory Project 'The Sweetness of Aspartame' (re *J. Chem. Educ.* **1997**, *74*, 1112). (Letter) Silverstein, T. P. February, 197.

## NSF Highlights

Biochemical Applications in the Analytical Chemistry Lab. (NSF) Strong, C.; Ruttencutter, J. December, 1706–1707.

Including Non-Traditional Instrumentation in Undergraduate Environmental Chemistry Courses. (NSF) Jenkins, J. D.; Orvis, J. N.; Smith, C. J.; Manley, C.; Rice, J. K. January, 22–23.
Integrating Computational Chemistry into the Physical Chemistry Laboratory Curriculum: A Wet Lab/Dry Lab Approach. (NSF) Karpen, M. E.; Henderleiter, J.; Schaertel, S. A. April, 475–477.
Microscale Syntheses, Reactions, and $^1$H NMR Spectroscopic Investigations of Square Planar Macrolylcic Tetraamido-*N* Co(III) Complexes Relevant to Green Chemistry. (NSF) Uffelman, E. S.; Doherty, J. R.; Schulze, C.; Burke, A. L.; Bonnema, K. R.; Watson, T. T.; Lee, D. W., III. March, 325–329.
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## Nuclear / Radiochemistry

How Radioactive Is Your Banana? Ball, D. W. October, 1440.
The Living Textbook of Nuclear Chemistry: A Peer-Reviewed, Web-Based, Educational Resource. Loveland, W. D.; Gallant, A.; Joiner, C. November, 1670–1671.
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